

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query  | DBs                                | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------------------------------------|------------------|---------|------------------|
| L5    | 99   | radiation detector and functional layers                                    | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2009/12/24 14:00 |
| L6    | 6    | radiation detector and functional layers with band gap                      | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2009/12/24 14:00 |
| L7    | 6    | radiation detector and functional layers with band gap with different       | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2009/12/24 14:00 |
| L8    | 45   | radiation detector and "lamda..sub.0"                                       | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2009/12/24 14:03 |
| L9    | 5    | radiation detector and "lamda..sub.0" same greater                          | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2009/12/24 14:04 |
| L10   | 206  | "lamda..sub.0" same greater   | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2009/12/24 14:05 |
| L11   | 3    | "lamda..sub.0" same greater same band gap                                   | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2009/12/24 14:06 |
| S1    | 6    | ("4820915") or ("5406067") or ("4451691") or ("4713493") or ("0509215").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR               | OFF     | 2009/06/03 19:07 |
| S2    | 2    | ("0509215").PN.   | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR               | OFF     | 2009/06/03 19:08 |
| S3    | 2    | ("0509215").PN.   | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR               | OFF     | 2009/06/03 19:09 |
| S4    | 2    | ("0509215").PN.   | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR               | OFF     | 2009/06/03 19:09 |
| S5    | 10   | filter layer with above with active layer                                   | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ              | ON      | 2009/06/24 10:58 |

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| S6  | 24  | ("2986591"   "4011016"   "4271328"   "4616246"). PN. OR ("4820915"). URPN.   | US-PGPUB; USPAT; USOCR             | ADJ | ON  | 2009/06/24 11:02 |
| S7  | 21  | "2986591"  | US-PGPUB; USPAT; USOCR             | ADJ | ON  | 2009/06/24 11:14 |
| S8  | 6   | (("2986591") or ("4011016") or ("4271328") or ("4616246")).PN.               | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR  | OFF | 2009/06/24 11:15 |
| S9  | 511 | radiation sensor and "257".clas.   | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 11:18 |
| S10 | 37  | radiation sensor and "257".clas. and III-V                                   | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 11:29 |
| S11 | 149 | radiation detector and "257".clas. and III-V                                 | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 16:18 |
| S12 | 7   | radiation detector and "257".clas. and III-V same active region              | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 16:20 |
| S13 | 2   | radiation detector and "257".clas. and filter layer same active region       | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 17:35 |
| S14 | 0   | radiation detector and "257".clas. and filter layer same active layer        | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 17:35 |
| S15 | 6   | radiation detector and filter layer same active region                       | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 17:36 |
| S16 | 11  | detector and filter layer same active region                                 | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 17:36 |
| S17 | 67  | sensor and filter layer same active region                                   | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 17:40 |
| S18 | 11  | sensor and filter layer same active region and radiation                     | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 17:42 |
| S19 | 2   | sensor and filter layer same semiconductor near5 active region and radiation | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 17:48 |
| S20 | 5   | filter layer same semiconductor near5 active region and radiation            | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 17:53 |

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| S21 | 22   | filter layer same semiconductor near5 active region                             | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 17:54 |
| S22 | 26   | filter near2 layer same semiconductor near5 active region                       | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 17:56 |
| S23 | 0    | filter near2 layer same direct (bandgap or band \$gap) same indirect band \$gap | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 18:05 |
| S24 | 6    | filter same direct (bandgap or band gap) same indirect bandgap                  | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 18:06 |
| S25 | 5    | filter same direct (bandgap or band gap) same indirect band gap                 | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 18:06 |
| S26 | 9    | filter same direct (bandgap or band gap) same indirect (band gap or bandgap)    | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 18:06 |
| S27 | 8    | direct same indirect bandgap same filter  | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 18:17 |
| S28 | 12   | direct same indirect near2 bandgap same filter                                  | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 18:18 |
| S29 | 12   | filter same direct same indirect near2 bandgap                                  | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 18:21 |
| S30 | 22   | filter layer with short \$wave  | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 18:57 |
| S31 | 4    | filter layer with short \$wave and radiation detector                           | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 18:57 |
| S32 | 4    | filter layer with short \$wave and active region                                | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 18:59 |
| S33 | 9    | filter layer with short \$wave and sensor                                       | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 19:00 |
| S34 | 2720 | color separation filter   | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 19:01 |
| S35 | 4    | color separation filter and radiation detector                                  | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2009/06/24 19:01 |

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| S36 | 7    | radiation detector and active region with heterostructure  | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 20:03 |
| S37 | 13   | radiation detector and active region same heterostructure  | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON  | 2009/06/24 20:07 |
| S38 | 498  | (257/428).CCLS.  | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR  | OFF | 2009/06/24 21:28 |
| S39 | 11   | ("5039490") or ("5703689") or ("6038023") or ("20020074553") or ("20030122060") or ("5813753") or ("20050072908") or ("20070040101") or ("5373182") or ("5448082") or ("20080237633")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR  | OFF | 2009/06/24 21:35 |
| S40 | 752  | (257/440).CCLS.  | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR  | OFF | 2009/06/24 21:39 |
| S41 | 1271 | (257/82).CCLS.   | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR  | OFF | 2009/06/24 21:39 |
| S42 | 1541 | (257/77).CCLS.   | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR  | OFF | 2009/06/24 21:39 |
| S43 | 939  | (257/184).CCLS.  | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR  | OFF | 2009/06/24 21:39 |
| S44 | 0    | (257/214.1).CCLS.  | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR  | OFF | 2009/06/24 21:40 |
| S45 | 139  | (257/214).CCLS.  | US-PGPUB; USPAT; USOCR; EPO; JPO   | OR  | OFF | 2009/06/24 21:40 |

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|-----|----|---|---|----|-----|---------------------|
| S46 | 11 | (("3508126") or<br>("3903413") or<br>("4451691") or<br>("4713493") or<br>("4820915") or<br>("5406067") or<br>("5583351") or<br>("5600157") or<br>("6476374") or<br>("20030001167")).PN. | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO | OR | OFF | 2009/06/24<br>21:43 |
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12/24/2009 3:31:55 PM

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